

## Product datasheet for **SC337297**

### **IMPG1 (NM\_001282368) Human Untagged Clone**

#### **Product data:**

|                           |                                           |
|---------------------------|-------------------------------------------|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | IMPG1 (NM_001282368) Human Untagged Clone |
| Tag:                      | Tag Free                                  |
| Symbol:                   | IMPG1                                     |
| Synonyms:                 | GP147; IPM150; SPACR; VMD4                |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-Entry (PS100001)                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                      |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001282368, the custom clone sequence may differ by one or more nucleotides

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ATGTATTTGGAACTAGAAGAGCTATTTTTGTTTTTGGATTTTCTCCAAGTTCAAGGAACCAAGTGT
GTCAGGAAGCAGTATGGGAAGCATATCGGATCTTTCTGGATCGCATCCCTGACACAGGGGAATATCAGGA
CTGGGTCAGCATCTGCCAGCAGGAGACCTTCTGCCTCTTTGACATTGGAAAAAATTCAGCAATTTCCAG
GAGCACCTGGATCTTCTCCAGCAGAGAATAAAACAGAGAAGTTCCCTGACAGAAAAGATGAAATATCTG
CAGAGAAGACATTGGGAGAGCCTGGTGAACCATTTGTCATTTCAACAGATGTTGCCAACGTCTCACTTGG
GCCTTTCCCTCTCACTCTGATGACACCCTCTCAATGAAATTCTCGATAATACTCAACGACACCAAG
ATGCCTACAACAGAAAGAGAAACAGAATTCGCTGTGTTGGAGGAGCAGAGGGTGGAGCTCAGCGTCTCTC
TGGTAAACCAGAAAGTTCAAGGCAGAGCTCGTGACTCCCAGTCCCATATTACCAGGAGCTAGCAGGAAA
GTCCCACTTCAGATGCAAAAGATATTTAAGAACTTCCAGGATTCAAAAAATCCATGTGTTAGGATTT
AGACCAAGAAAGAAAAAGATGGCTCAAGCTCCACAGAGATGCAACTTACGGCCATCTTTAAGAGACACA
GTGCAGAAAGCAAAAGCCCTGCAAGTGACCTCCTGTCTTTGATTCCAACAAAATTGAAAGTGAGGAAGT
CTATCATGGAACCATGGAGGAGGACAAGCAACCAGAAATCTATCTCACAGCTACAGACCTCAAAAGGCTG
ATCAGCAAAAGCACTAGAGGAAGAACAATCTTTGGATGTGGGGACAATTCAGTTCACTGATGAAATTGCTG
GATCACTGCCAGCCTTTGGTCTGACACCAATCAGAGCTGCCACATCTTTTGCTGTTATAACAGAGGA
TGCTACTTTGAGTCCAGAACTTCTCTGTTGAACCCAGCTTGAGACAGTGGACGGAGCAGAGCATGGT
CTACCTGACACTTCTGGTCTCCACCTGCTATGGCCTCTACCTCCCTGTCAGAAGCTCCACCTTTCTTTA
TGGCATCAAGCATCTTCTCTGACTGATCAAGGCACCACAGATACAATGGCCACTGACCAGACAATGCT
AGTACCAGGGCTCACCATCCCCACCAAGTGATTATTCTGCAATCAGCCAACTGGCTCTGGGAATTTACAT
CCACCTGCATCTTCAGATGACAGCCGATCAAGTGCAGGTGGCGAAGATATGGTCAGACACCTAGATGAAA
TGGATCTGTCTGACACTCTGCCCATCTGAGGTACCAGAGCTCAGCGAATATGTTTCTGTCCAGATCA
TTTCTTGAGGATACCACTCCTGTCTCAGCTTTACAGTATATCACCAGTCTATGACATTGCCCCC
AAGGGCCGAGAGCTGGTAGTGTCTTCACTCTGCGTGTGCTAACATGGCCTTCTCAACGACCTGTTCA
ACAAGAGCTCTCTGGAGTACCGAGCTCTGGAGCAACAATCACACAGCTGCTGGTTCCATATCTACGATC
CAATCTTACAGGATTTAAGCACTTGAATACTTAACCTCAGAAACGGGAGTGTGATTGTGAATAGCAAA
ATGAAGTTTGCTAAGTCAGTGCCGTATAACCTACCAAGGCTGTGCACGGGGTCTGGAGGATTTTCGTT
CTGCTGCAGCCCAACACTCCATCTGAAATAGACAGCTACTCTCTCAACATTGAACCAGCTGATCAAGC
AGATCCCTGCAAGTTCTGGCCTGCGGCAATTTGCCAATGTGTAAGAACGAACGAGTGAAGGAGCG
GAGTGTCGCTGCAAAACCAGGATATGACAGCCAGGGGAGCCTGGACGGTCTGGAACCAGGCCCTGTGGCC
CTGGCACAAGGAATGCGAGGTCTCCAGGAAAAGGAGCTCCATGCAGGTTGCCAGATCACTCTGAAAA
TCAAGCATACAAAAGTAGTGTTAAAAAGTTCAAAATCAACAAAATAACAAGGTAATCAGTAAAAGAAAT
TCTGAATTACTGACCGTAGAATATGAAGAATTTAACCATCAAGATTGGGAAGGAAATTA
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001282368

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>                                       |
| <b>RefSeq:</b>                | <u>NM_001282368.1, NP_001269297.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 3342 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RefSeq ORF:</b>            | 2160 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Locus ID:</b>              | 3617                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID:</b>            | <u>Q17R60</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Cytogenetics:</b>          | 6q14.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Families:</b>      | Druggable Genome, Secreted Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Summary:</b>          | <p>This gene encodes a protein that is a major component of the retinal interphotoreceptor matrix. The encoded protein is a proteoglycan that is thought to play a role in maintaining viability of photoreceptor cells and in adhesion of the neural retina to the retinal pigment epithelium. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]</p> <p>Transcript Variant: This variant (2) lacks one in-frame alternate exon compared to variant 1. The encoded isoform (2) is shorter compared to isoform 1.</p> |